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Applicant : Deryck Jeremy Williams et al.
Serial No. : 10/090,527
Filed : March 4, 2002
Page : 2 of 14

Attorney's Docket No.: 12557-009001

Amendments to the Claims

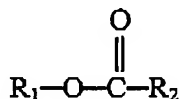
This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1-21. (Canceled).

C1
22. (Previously Presented) A method for control of unwanted nematodes, the method comprising administering to mammals, plants, seeds or soil a nematocidal composition comprising:

(a) an effective amount of a compound having the formula



wherein:

R₁ = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a substituted or unsubstituted C1-C2 carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy; and

R₂ = a C15-C19 substituted or unsubstituted carbon chain having a *cis* double bond between the 9th and 10th carbons counting from the carbonyl carbon and either: (i) a triple bond between the 12th and 13th carbons counting from the carbonyl carbon or (ii) either a single or double bond between the 12th and 13th carbons counting from the carbonyl carbon and at least one substituent at one or both of the 12th and 13th carbons counting from the carbonyl carbon, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a substituted or unsubstituted C1-C2 carbon

Applicant : Deryck Jeremy Williams et.al.
Serial No. : 10/090,527
Filed : March 4, 2002
Page : 3 of 14

Attorney's Docket No.: 12557-009001

chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy; and

(b) an aqueous surfactant.

C¹ cont
23. (Previously Presented) The method of claim 22 wherein R₁ = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and an unsubstituted C1-C2 carbon chain.

24. (Previously Presented) The method of claim 22 wherein R₂ = a C15-C19 substituted or unsubstituted carbon chain having a *cis* double bond between the 9th and 10th carbons counting from the carbonyl carbon and either: (i) a triple bond between the 12th and 13th carbons counting from the carbonyl carbon or (ii) either a single or double bond between the 12th and 13th carbons and at least one substituent at one or both of the 12th and 13th carbons counting from the carbonyl carbon, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and an unsubstituted C1-C2 carbon chain.

25-28. (Canceled).

29. (Previously Presented) The method of claim 22 wherein R₁ is a C1-C2 substituted or unsubstituted carbon chain.

30. (Previously Presented) The method of claim 22 wherein R₂ is substituted only at one or both of 12th and 13th carbons.

31. (Previously Presented) The method of claim 22 wherein R₂ is substituted only at the 12th carbon.

Applicant : Deryck Jeremy Williams et al.
Serial No. : 10/090,527
Filed : March 4, 2002
Page : 4 of 14

Attorney's Docker No.: 12557-009001

32-33. (Canceled).

34. (Previously Presented) The method of claim 22 wherein within R_2 the substituents are selected from the group consisting of: hydroxy, epoxy, and a C1 alkyl.

35. (Original) A method for control of unwanted nematodes, the method comprising administering to mammals, plants, seeds or soil a nematicidal composition comprising an effective amount of:

- (a) a fatty acid methyl ester selected from the group consisting of: ricinoleic acid methyl ester, crepenynic acid methyl ester, and vernolic acid methyl ester; and
- (b) an aqueous surfactant.

36. (Previously Presented) The method of claim 22 or claim 35 wherein the aqueous surfactant is selected from the group consisting of: ethyl lactate, polyoxyethylene sorbitan 20 monolaureate, polyoxyethylene 9 nonylphenyl ether.

37. (Original) The method of claim 22 or claim 35 wherein the composition further comprises:

- (c) a permeation enhancer.

38. (Original) The method of claim 37 wherein the permeation enhancer is a cyclodextrin.

39. (Original) The method of claim 22 or 35 wherein the composition comprises:

- (c) a co-solvent.

40. (Original) The method of claim 39 wherein the co-solvent is isopropanol.

Applicant : Deryck Jeremy Williams et al.
Serial No. : 10/090,527
Filed : March 4, 2002
Page : 5 of 14

Attorney's Docket No.: 12557-009001

41. (Original) The method of claim 22 or claim 35 further comprising administering a nematicide selected from the group consisting of: avermectins, ivermectin, and milbemycin.

42. (Original) The method of claim 22 wherein the nematode infects plants and the nematicidal composition is applied to the soil or to plants.

C1
43. (Original) The method of claim 42 wherein the nematicidal composition is applied to soil before planting.

44. (Original) The method according to claim 42 where the nematicidal composition is applied to soil after planting.

45. (Original) The method of claim 42 wherein the nematicidal composition is applied to soil using a drip system.

46. (Original) The method of claim 42 wherein the nematicidal composition is applied to soil using a drench system.

47. (Original) The method of claim 42 wherein the nematicidal composition is applied to plant roots.

48. (Original) The method of claim 22 wherein the nematicidal composition is applied to seeds.

49. (Original) The method of claim 22 wherein the nematode infects a mammal.

50. (Original) The method of claim 22 wherein the nematicidal composition is administered to non-human mammal.

Applicant : Deryck Jeremy Williams et al.
Serial No. : 10/090,527
Filed : March 4, 2002
Page : 6 of 14

Attorney's Docket No.: 12557-009001

51. (Original) The method of claim 22 wherein the nematicidal composition is administered to a human.

52. (Original) The method of claim 50 wherein the nematicidal composition is formulated as a drench to be administered to a non-human animal.

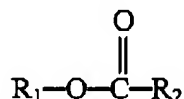
53. (Original) The method of claim 49 wherein the nematicidal composition is formulated as an orally administered drug.

54. (Original) The method of claim 49 wherein the nematicidal composition is formulated as an injectable drug.

55-66. (Canceled).

67. (Previously Presented) A nematicidal composition comprising:

(a) an effective amount of a compound having the formula



wherein:

R₁ = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a C1-C2 substituted or unsubstituted carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy; and

R₂ = a C15-C19 substituted or unsubstituted carbon chain having a *cis* double bond between the 9th and 10th carbons counting from the carbonyl carbon and either: (i) a triple bond between the 12th and 13th carbons counting from the carbonyl carbon or (ii) either a single or

Applicant : Deryck Jeremy Williams et al.
Serial No. : 10/090,527
Filed : March 4, 2002
Page : 7 of 14

Attorney's Docket No.: 12557-009001

double bond between the 12th and 13th carbons counting from the carbonyl carbon and at least one substituent at one or both of the 12th and 13th carbons counting from the carbonyl carbon, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a substituted or unsubstituted C1-C2 carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy;

(b) an aqueous surfactant; and

(c) a nematicide selected from the group consisting of: avermectins, ivermectin, and milbemycin.

C' 68. (Currently Amended) The composition of claim [65 or] 67 wherein the aqueous surfactant is selected from the group consisting of: ethyl lactate, polyoxyethylene 20 sorbitan monolaureate, polyoxyethylene 9 nonylphenyl ether.

69. (Currently Amendment) The composition of claim [65 wherein the] 67 further comprising a permeation enhancer [is a cyclodextrin].

70. (Currently Amended) The composition of claim [65 or] 67 further comprising a co-solvent.

71. (Previously presented) The nematicidal composition of claim 70 wherein the co-solvent is isopropanol.

72. (Currently Amended) The nematicidal composition of claim [65 or] 67 wherein R₁ = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a singly or multiply substituted or unsubstituted C1-C2 carbon chain, wherein the substituents on

Applicant : Deryck Jeremy Williams et al.
Serial No. : 10/090,527
Filed : March 4, 2002
Page : 8 of 14

Attorney's Docket No.: 12557-009001

the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy.

C¹
73. (Currently Amended) The nematicidal composition of claim [65 or] 67 wherein R₂ = a C15-C19 substituted or unsubstituted carbon chain having a *cis* double bond between the 9th and 10th carbons counting from the carbonyl carbon and either: (i) a triple bond between the 12th and 13th carbons counting from the carbonyl carbon or (ii) either a single or double bond between the 12th and 13th carbons counting from the carbonyl carbon and at least one substituent at one or both of the 12th and 13th carbons counting from the carbonyl carbon, wherein the substituents are selected from the group consisting of hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and an unsubstituted C1-C2 carbon chain.

74. (Currently Amended) The nematicidal composition of claim [65 or] 67 wherein R₁ is a C1-C2 substituted or unsubstituted carbon chain.

75. (Currently Amended) The nematicidal composition of claim [65 or] 67 wherein R₂ is substituted only at one or both of 12th and 13th carbons counting from the carbonyl carbon.

76. (Previously presented) The nematicidal composition of claim 75 wherein R₂ is substituted only at the 12th carbon counting from the carbonyl carbon.

77. (Previously presented) The composition of claim 75 wherein within R₂ the substituents are selected from the group consisting of: hydroxy, epoxy, and a C1 alkyl.

78. (Previously presented) The nematicidal composition of any of claims 72-77 wherein the aqueous surfactant is selected from the group consisting of: ethyl lactate, polyoxyethylene 20 sorbitan monolaureate, polyoxyethylene 9 nonylphenyl ether.

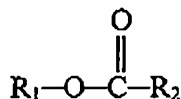
Applicant : Deryck Jeremy Williams et al.
 Serial No. : 10/090,527
 Filed : March 4, 2002
 Page : 9 of 14

Attorney's Docket No.: 12557-009001

79. (Previously presented) The nematicidal composition of any of claims 72-77 further comprising a co-solvent.

80. (Currently Amended) A nematicidal composition [comprising] consisting essentially of:

(a) an effective amount of a compound having the formula



wherein:

C¹
 R₁ = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a C1-C2 substituted or unsubstituted carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy; and

R₂ = a C15-C19 substituted or unsubstituted carbon chain having a *cis* double bond between the 9th and 10th carbons counting from the carbonyl carbon and either: (i) a triple bond between the 12th and 13th carbons counting from the carbonyl carbon or (ii) either a single or double bond between the 12th and 13th carbons counting from the carbonyl carbon and at least one substituent at one or both of the 12th and 13th carbons counting from the carbonyl carbon, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a substituted or unsubstituted C1-C2 carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy; and

(b) an aqueous surfactant selected from the group consisting of: ethyl lactate, polyoxyethylene 20 sorbitan monolaureate, polyoxyethylene 9 nonylphenyl ether.

81. (Previously presented) The nematicidal composition of claim 80 wherein R₁ = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituents are selected from the

Applicant : Deryck Jeremy Williams et al.
Serial No. : 10/090,527
Filed : March 4, 2002
Page : 10 of 14

Attorney's Docket No.: 12557-009001

group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a singly or multiply substituted or unsubstituted C1-C2 carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy.

C¹
82. (Previously presented) The nematicidal composition of claim 80 wherein R₂ = a C15-C19 substituted or unsubstituted carbon chain having a *cis* double bond between the 9th and 10th carbons counting from the carbonyl carbon and either: (i) a triple bond between the 12th and 13th carbons counting from the carbonyl carbon or (ii) either a single or double bond between the 12th and 13th carbons counting from the carbonyl carbon and at least one substituent at one or both of the 12th and 13th carbons counting from the carbonyl carbon, wherein the substituents are selected from the group consisting of hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and an unsubstituted C1-C2 carbon chain.

83. (Previously presented) The composition of claim 80 wherein R₁ is a C1-C2 substituted or unsubstituted carbon chain.

84. (Previously presented) The composition of claim 80 wherein R₂ is substituted only at one or both of 12th and 13th carbons counting from the carbonyl carbon.

85. (Previously presented) The composition of claim 80 wherein R₂ is substituted only at the 12th carbon counting from the carbonyl carbon.

86. (Previously presented) The composition of claim 85 wherein within R₂ the substituents are selected from the group consisting of: hydroxy, epoxy, and a C1 alkyl.

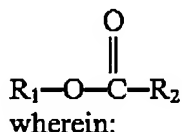
87. (Canceled).

Applicant : Deryck Jeremy Williams et al.
Serial No. : 10/090,527
Filed : March 4, 2002
Page : 11 of 14

Attorney's Docket No.: 12557-009001

88. (Previously presented) A nematicidal feed for a non-human mammal comprising:

- (a) a feed selected from the group consisting of: soy, wheat, corn, sorghum, millet, alfalfa, clover, and rye;
- (b) an effective amount of a nematicidal compound having the formula



C₁
R₁ = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a substituted or unsubstituted C1-C2 carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy;

and

R₂ = a C15-C19 substituted or unsubstituted carbon chain having a *cis* double bond between the 9th and 10th carbons and either: (i) a triple bond between the 12th and 13th carbons or (ii) either a single or double bond between the 12th and 13th carbons and at least one substituent at one or both of the 12th and 13th carbons, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a substituted or unsubstituted C1-C2 carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy; and

- (c) an aqueous surfactant.

89. (Currently Amended) The nematicidal feed of claim [87 or] 88 wherein R₁ = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a singly or multiply substituted or unsubstituted C1-C2 carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy.

Applicant : Deryck Jeremy Williams et al.
Serial No. : 10/090,527
Filed : March 4, 2002
Page : 12 of 14

Attorney's Docket No.: 12557-009001

90. (Currently Amended) The nematicidal feed of claim [87 or] 88 wherein R_2 = a C15-C19 substituted or unsubstituted carbon chain having a *cis* double bond between the 9th and 10th carbons counting from the carbonyl carbon and either: (i) a triple bond between the 12th and 13th carbons counting from the carbonyl carbon or (ii) either a single or double bond between the 12th and 13th carbons counting from the carbonyl carbon and at least one substituent at one or both of the 12th and 13th carbons counting from the carbonyl carbon, wherein the substituents are selected from the group consisting of hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and an unsubstituted C1-C2 carbon chain.

C¹
91. (Currently Amended) The nematicidal feed of claim [87 or] 88 wherein R_1 is a C1-C2 substituted or unsubstituted carbon chain.

92. (Currently Amended) The nematicidal feed of claim [87 or] 88 wherein R_2 is substituted only at one or both of 12th and 13th carbons counting from the carbonyl carbon.

93. (Currently Amended) The nematicidal feed of claim [99] 92 wherein R_2 is substituted only at the 12th carbon counting from the carbonyl carbon.

94. (Currently Amended) The nematicidal feed of claim [99] 92 wherein within R_2 the substituents are selected from the group consisting of: hydroxy, epoxy, and a C1 alkyl.

95. (Previously presented) A nematicidal feed for a non-human mammal comprising:
(a) a feed that has been treated to reduce linoleic acid content, linolenic acid content or both;
(b) a fatty acid methyl ester selected from the group consisting of: ricinoleic acid methyl ester, crepenynic acid methyl ester, and vernolic acid methyl ester; and
(c) an aqueous surfactant.

Applicant : Deryck Jeremy Williams et al.
Serial No. : 10/090,527
Filed : March 4, 2002
Page : 13 of 14

Attorney's Docket No.: 12557-009001

96. (Previously presented) The nematocidal feed of claim 95 wherein both the gamma linolenic acid content and the alpha linolenic acid content have been reduced.

C 97. (Previously presented) A nematocidal feed for a non-human mammal comprising:
(a) a feed selected from the group consisting of: soy, wheat, corn, sorghum, millet, alfalfa, clover, and rye;
(b) a fatty acid methyl ester selected from the group consisting of: ricinoleic acid methyl ester, crepenynic acid methyl ester, and vernolic acid methyl ester; and
(c) an aqueous surfactant.
